

What is claimed is:

1. An accumulator comprising:
a body having an empty space therein;
an inlet tube inserted into the inside of the body from a top thereof, downwardly, for an inflow of a refrigerant to the inside of the body;
an outlet tube inserted into the inside of the body from a bottom thereof, upwardly, for a discharge of the refrigerant to the outside of the body; and
an isolating plate provided on an inner bottom of the body between the inlet tube and the outlet tube, for preventing the outlet tube from being splashed with the liquid phase refrigerant, and preventing the liquid phase refrigerant from flowing into the outlet tube.
2. The accumulator of claim 1, wherein each side of the isolating plate is in contact to an inner surface of the body.
3. The accumulator of claim 1, wherein each side of the isolating plate is provided at a predetermined interval from an inner surface of the body.
4. The accumulator of claim 1, further comprising at least one heater provided on the inner bottom of the body, for heating the refrigerant stored in the inside of the body.
5. The accumulator of claim 4, wherein an inner lower portion of the body is divided into a plurality of blocks, and the heater is provided in the same block as that having the inlet tube.

6. The accumulator of claim 1, wherein the isolating plate divides an inner lower portion of the body into two blocks.

7. The accumulator of claim 1, wherein the isolating plate divides an inner lower portion of the body into a plurality of blocks.

8. The accumulator of claim 7, further comprising a plurality of heaters provided on each block of the inner bottom of the body.

9. An air conditioning system comprising:

- at least one compressor for compressing a refrigerant at a high pressure, and discharging the refrigerant;
- a flowing control valve connected to the compressor, for controlling a flowing direction of the refrigerant according to an operation mode;
- a plurality of heat exchangers, for being respectively positioned indoor and outdoor, and connected to the flowing control valve;
- at least one expansion device provided in a refrigerant tube directly connecting the heat exchangers; and
- an accumulator temporarily storing the refrigerant passing through the heat exchangers, and connected to an inlet of the compressor for providing the gas phase refrigerant to the compressor;

wherein, the accumulator includes:

- a body having an empty space therein;

an inlet tube connected to the flowing control valve, and inserted into the inside of the body from a top thereof, downwardly;

an outlet tube connected to the compressor, and inserted into the inside of the body from a bottom thereof, upwardly; and

an isolating plate provided on an inner bottom of the body between the inlet tube and the outlet tube, for preventing the outlet tube from being splashed with the liquid phase refrigerant, and preventing the liquid phase refrigerant from flowing into the outlet tube.

10. The air conditioning system of claim 9, further comprising a plurality of check valves, each provided between the outlet of each compressor and the flowing control valve, for preventing the refrigerant from flowing into the outlet of the compressor.

11. The air conditioning system of claim 9, wherein each of the compressors has different capacity.

12. The air conditioning system of claim 9, wherein each side of the isolating plate is in contact to an inner surface of the body.

13. The air conditioning system of claim 9, wherein each side of the isolating plate is provided at a predetermined interval from an inner surface of the body.

14. The air conditioning system of claim 9, further comprising at least one heater provided on the inner bottom of the body, for heating the refrigerant stored in the inside of the body.

15. The air conditioning system of claim 14, wherein an inner lower portion of the body is divided into a plurality of blocks, and the heater is provided in the same block as that having the inlet tube.

16. The air conditioning system of claim 9, wherein the isolating plate divides an inner lower portion of the body into two blocks.

17. The air conditioning system of claim 9, wherein the isolating plate divides an inner lower portion of the body into a plurality of blocks.

18. The air conditioning system of claim 17, further comprising a plurality of heaters provided on each block of the inner bottom of the body.